

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

# NOTICE OF ACCEPTANCE (NOA)

PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

MIAMI-DADE COUNTY, FLORIDA

Atrium Companies, Inc. 9001 Ambassador Row Dallas, TX 75247

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "MPSH/ M41-51" Aluminum Single Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **ATR031**, titled "MPSH/ M41-51 Alum. Single Hung Window", sheets 1 through 9 of 9, dated 12/07/11 with revision "A" dated 03/14/12, prepared by Building Drops, Inc., signed and sealed by Alexis Spyrou, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 10-0729.02 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. GASON1 3/28/12 NOA No. 12-0117.03 Expiration Date: March 14, 2017 Approval Date: April 05, 2012

Page 1

# Atrium Companies, Inc.

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## A. DRAWINGS

- 1. Manufacturer's die drawings and sections.

  (Submitted under previous NOA's No.'s 02-0128.06 and 10-0729.02)
- 2. Drawing No. ATR031, titled "MPSH/ M41–51 Alum. Single Hung Window", sheets 1 through 9 of 9, dated 12/07/11 with revision "A" dated 03/14/12, prepared by Building Drops, Inc., signed and sealed by Alexis Spyrou, P. E.

## B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201–94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked—up drawings and installation diagram of aluminum single hung windows, prepared by Certified Testing Laboratories, Inc., Test Report No. CTLA-2005W, dated 02/24/10, signed and sealed by Ramesh O. Patel, P. E.

(Submitted under previous NOA No. 10-0729.02)

- 2. Test reports on: 1) Air Infiltration Test, per SFBC, PA 202–94
  - 2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
  - 3) Water Resistance Test, per SFBC, PA 202-94
  - 4) Large Missile Impact Test per SFBC, PA 201-94
  - 5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
  - 6) Forced Entry Test, per SFBC, PA 202–94 and per AAMA 1302.5 along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL**-3068 and **FTL**-3253, dated 05/14/01 and 11/08/01, both signed and sealed by Luis Antonio Figueredo, P. E.

(Submitted under previous NOA No. 02-0128.06)

#### C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, dated 12/23/11, prepared by Building Drops, Inc., dated 03/14/12, signed and sealed by Alexis Spyrou, P. E.
- 2. Glazing complies with ASTM E1300–98/04

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

Jaime D. Gascon, P. E.

**Product Control Section Supervisor** 

NOA No. 12-0117.03

Expiration Date: March 14, 2017 Approval Date: April 05, 2012

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 11–0624.01 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 09/08/2011, expiring on 12/11/2016.
- 2. Notice of Acceptance No. 08-0206.01 issued to Solutia Inc. for their "Saflex HP Glass Interlayer" dated 04/17/2008, expiring on 04/17/2013.
- 3. Notice of Acceptance No. 07-0831.06 issued to Cardinal LG for their "Laminated Glass Cardinal Sea-Storm Type B", dated 10/11/07, expiring on 12/30/12.

#### F. STATEMENTS

- 1. Statement letter of no financial interest, conformance and compliance with the FBC-2007 and FBC-2010, dated December 19, 2011, signed and sealed by Alexis Spyrou, P. E.
- 2. Proposal No. **09–1541** issued by BCCO, dated November 04, 2009, signed by Manuel Perez, P. E.

(Submitted under previous NOA No. 09-0707.05)

3. Laboratory compliance letter for Test Report No. CTLA-2005W, issued by Certified Testing Laboratories, Inc., dated February 24, 2010, signed and sealed by Ramesh O. Patel, P. E.

(Submitted under previous NOA No. 10-0729.02)

4. Laboratory compliance letter for Test Reports No.'s FTL-3068 and FTL-3253, issued by Fenestration Testing Laboratory, Inc., dated 05/14 and 11/08/2001, both signed and sealed by Luis Antonio Figueredo, P. E. (Submitted under previous NOA No. 02-0128.06)

# G. OTHERS

1. Notice of Acceptance No. 10–0729.02, issued to Atrium Florida, Inc. for their Series "MPSH Aluminum Single Hung Window – L.M.I.", approved on 12/24/10 and expiring on 03/14/12.

Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 12-0117.03

Expiration Date: March 14, 2017 Approval Date: April 05, 2012

#### **INSTALLATION NOTES:**

- 1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH BASED ON QUANTITIES IN DP CHARTS NOT TO EXCEED THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- THROUGH FRAME: FOR INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- 6. THROUGH FRAME: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH DIAMETER ITW TAPCONS OR 1/4 INCH DIAMETER ELCO ULTRACONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- THROUGH FRAME: FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE 1/4-14 ITW TEK SELECT, 1/4-20 DRIL-FLEX SAE GR. 5 BY ELCO, OR 1/4-20 SAE GR. 5 KWIK-FLEX BY HILTI SELF DRILLING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- NAIL FIN: FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- NAIL FIN: FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10-16 ELCO DRIL-FLEX SAE GR. 5 OR #10-16 HILTI KWIK-FLEX SAE GR. 5 SELF DRILLING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
- 10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- 11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT
- 12. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF
- 13. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- 14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD MINIMUM SPECIFIC GRAVITY OF 0.55.
  - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
  - D. HOLLOW BLOCK CMU UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
  - E. STEEL MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM WALL THICKNESS OF 59.8 MIL (0.0598" or 16 GAUGE). MIN. 1/2" EDGE DISTANCE.
  - F. ALUMINUM MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8" (0,125"). MIN. 1/2" EDGE DISTANCE

# ATRIUM COMPANIES, INC.

# MPSH/M41-51 ALUMINUM SINGLE HUNG WINDOW (IMPACT)

#### GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 & 2010 FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- 2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE BNC.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE,
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
- 7. IN ACCORDANCE WITH THE 2007 & 2010 FBC SEC. 2003.8.4 DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN SEC 2003.8.4.2.
- 7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300-04 GLASS CHARTS. SEE SHEET 7 FOR GLAZING DETAILS.

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SHEET	REVISION	SHEET DESCRIPTION
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2	Α	ELEVATION & ANCHOR LAYOUTS
3	Α .	ELEVATION & ANCHOR LAYOUTS
4	A	VERTICAL SECTIONS
5	Α	HORIZONTAL SECTIONS
6	A	EQUAL LITE DP TABLES
7	Α	UNEQUAL LITE DP TABLES & GLAZING DETAILS
8	Α	COMPONENTS & BILL OF MATERIALS
9	Α	CORNER SECTION ASSEMBLIES

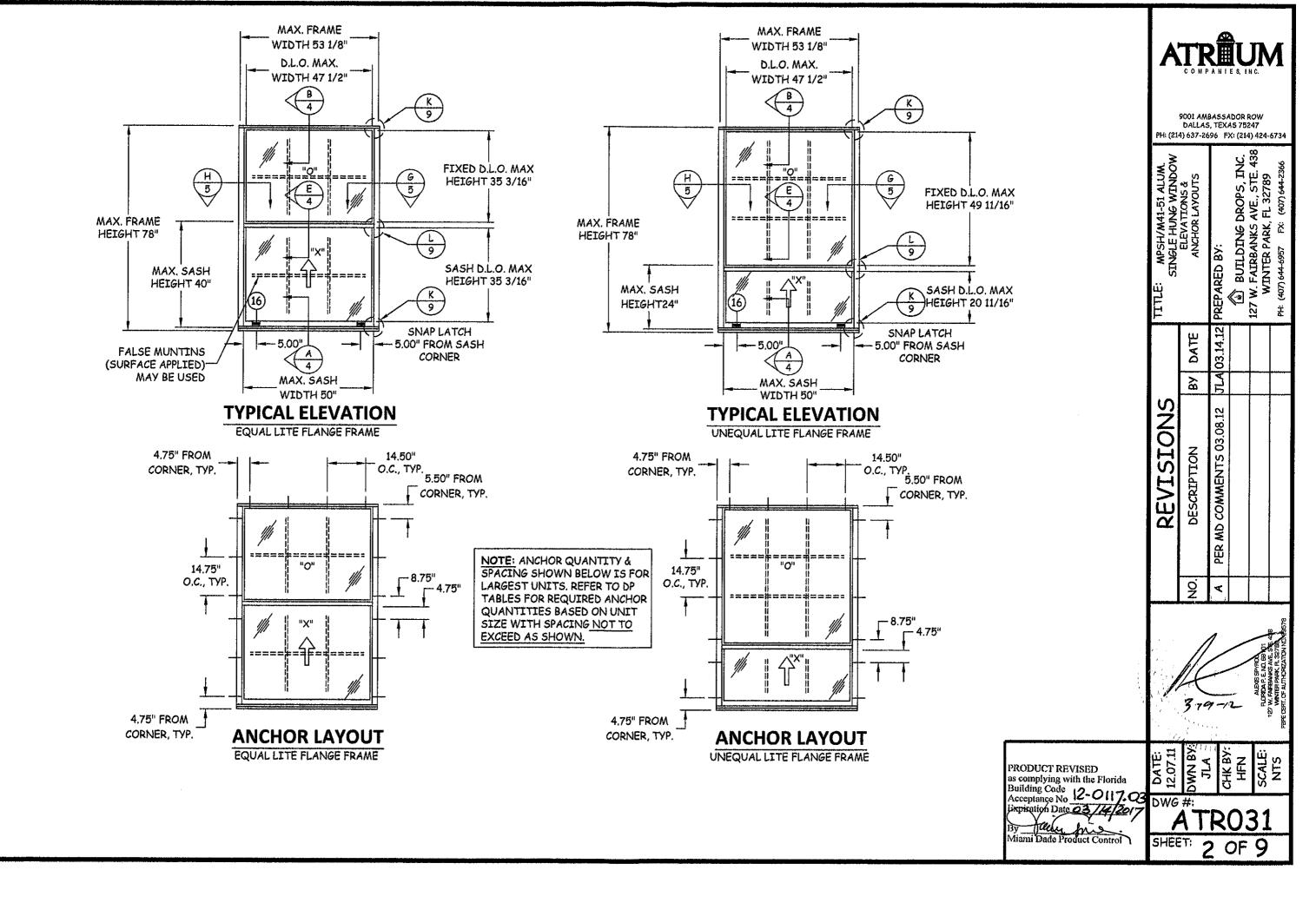
MISSILE IMPACT RATING

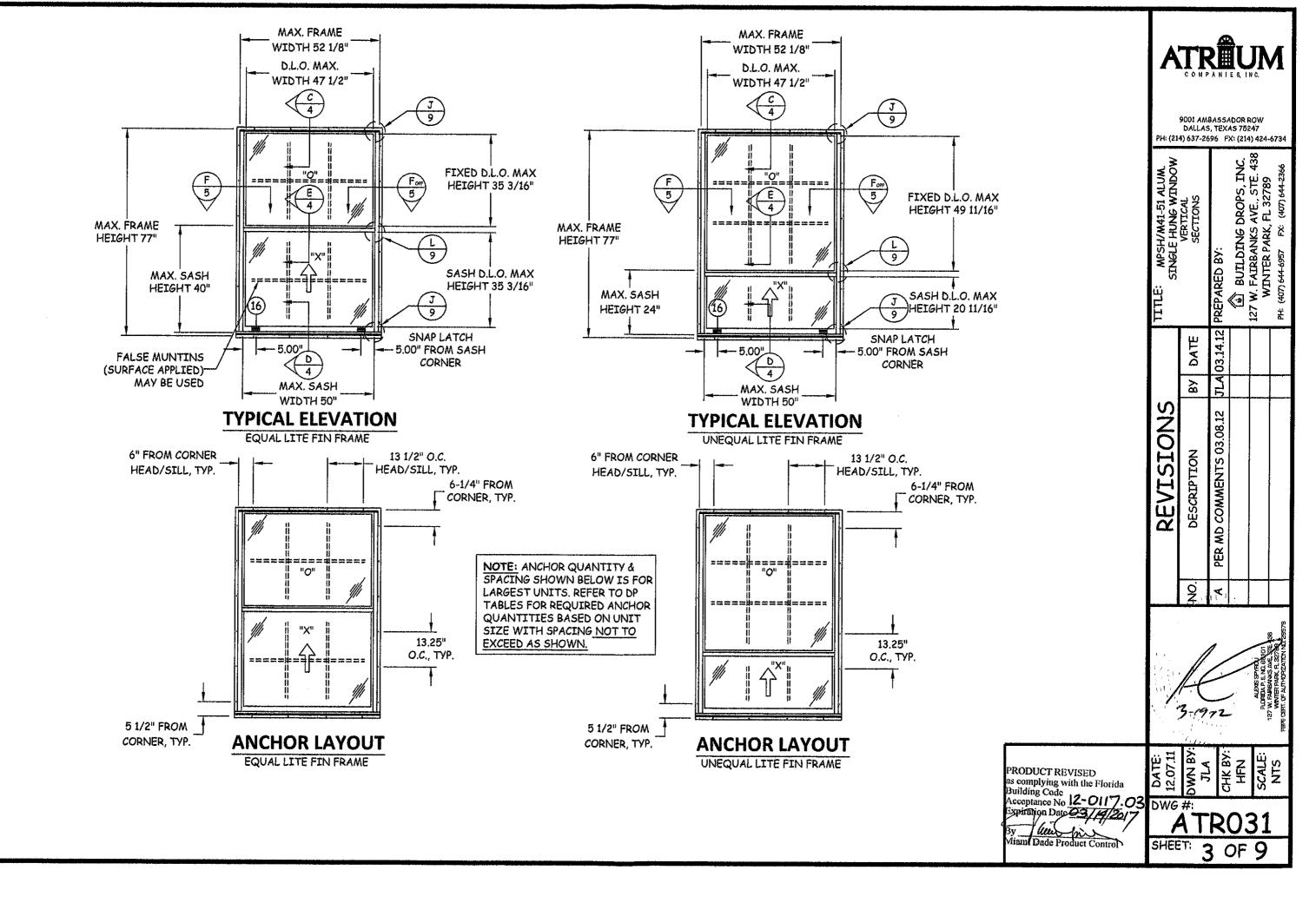
LARGE & SMALL MISSILE IMPACT

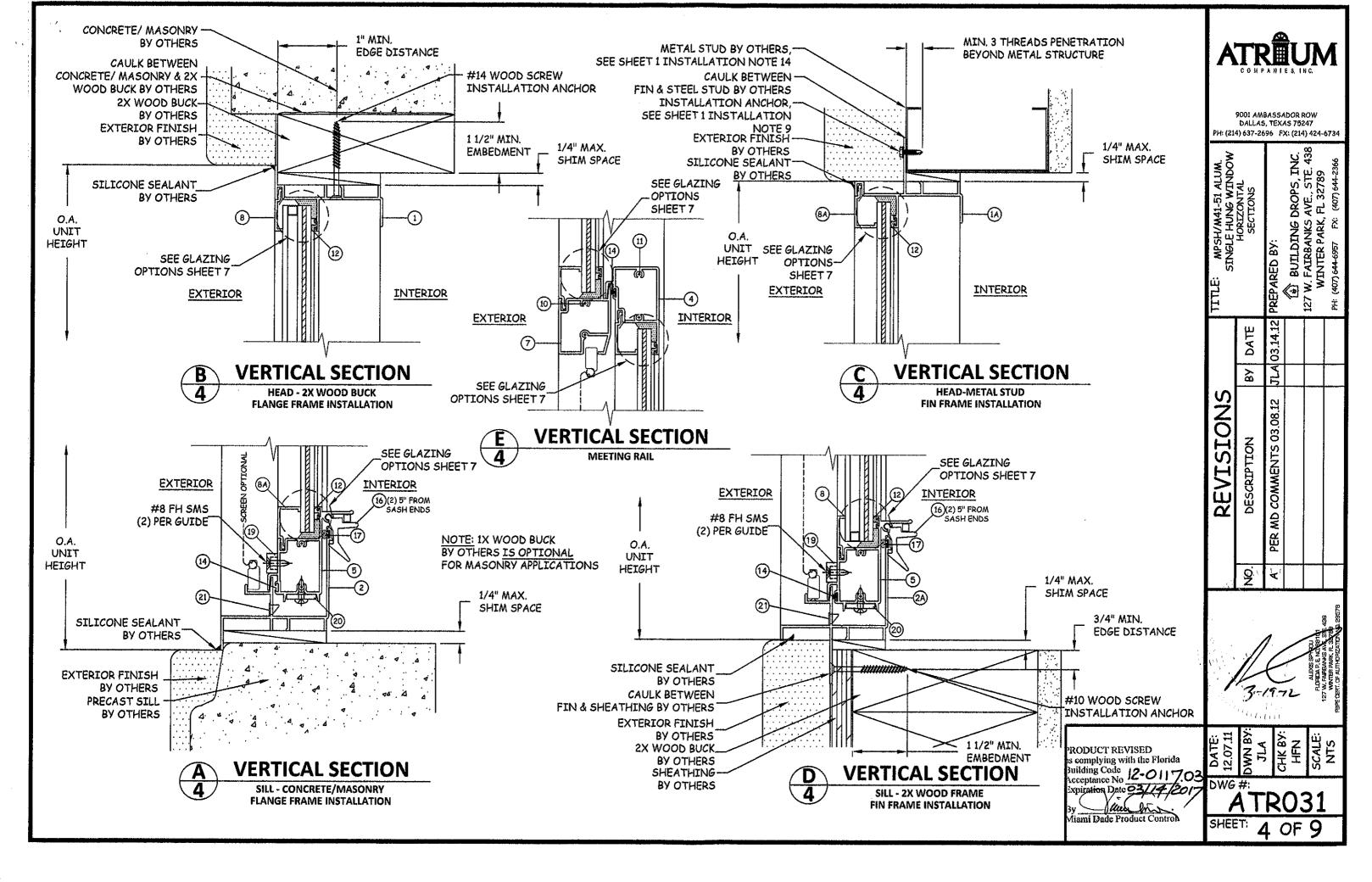
9001 AMBASSADOR ROW DALLAS, TEXAS 75247 PH: (214) 637-2696 FX: (214) 424-6734

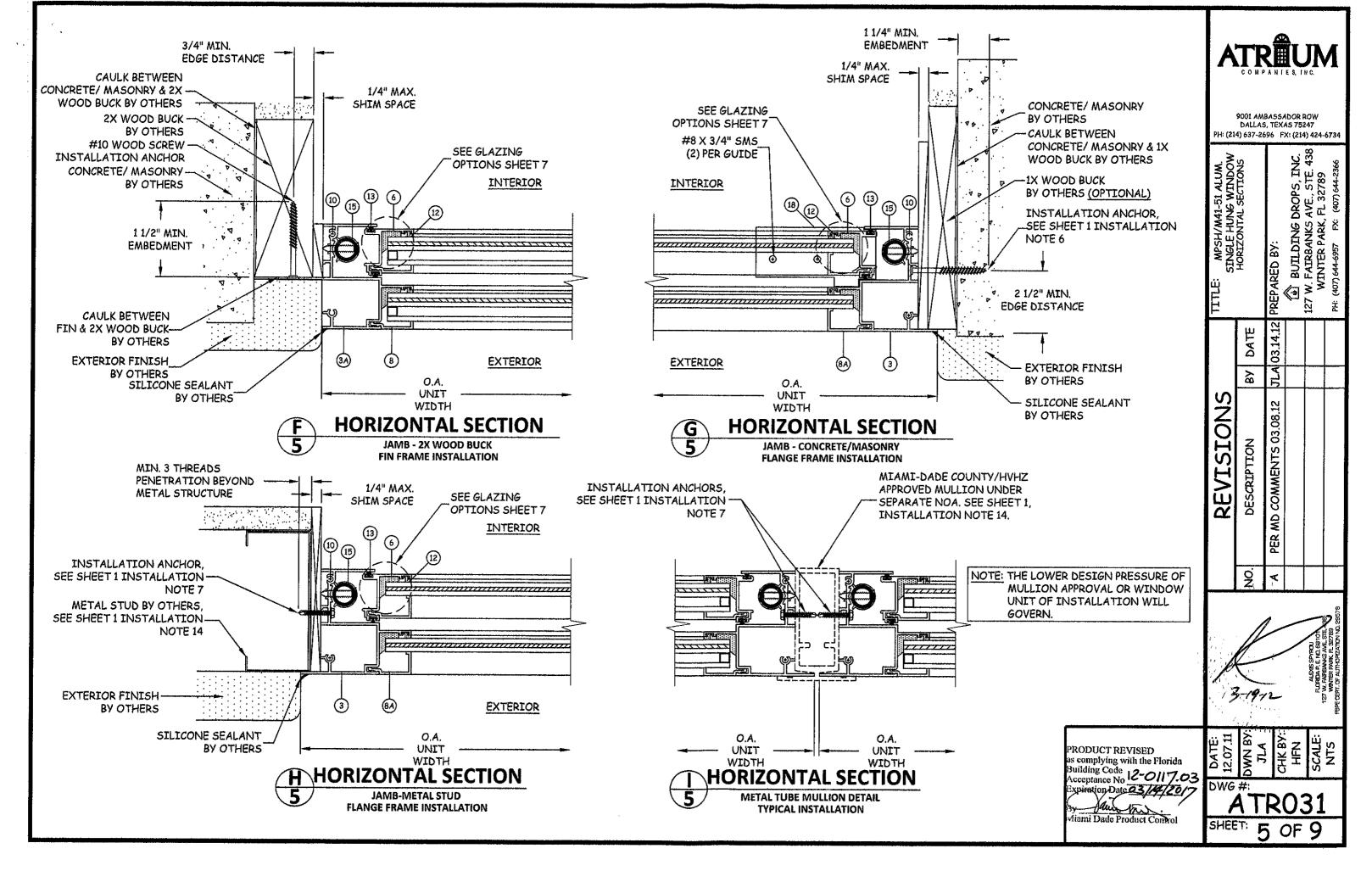
· 	REVISIONS			TITLE: MPSH/M41-51 ALUM. SINGLE HUNG WINDOW
NO.	DESCRIPTION	ВУ	BY DATE	INSTALLATION & GENERAL NOTES
 ٧	PER MD COMMENTS 03.08.12 JLA 03.14.12 PREPARED BY:	JLA	03.14.12	PREPARED BY:
				BUILDING DROPS, INC.
				127 W. FAIRBANKS AVE., STE. 438 WINTER PARK FL. 32789
				PH: (407) 644-6957 FX: (407) 644-2366

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0117.03 DWG #:





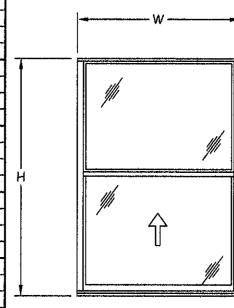




D.		L LITE SINGLE HUI						***************************************	T	
H	W	No. of Fastners		31		32		33	G4	
(IN.)	(IN <sub>1</sub> )	perJamb	POS	NEG	POS	NEG	POS	NEG	POS	NEG
	24.00	3	80.0	80.0	80,0	80.0	80.0	80.0	80,0	80.0
	28.00	3	80,0	80,0	80.0	80.0	80.0	80.0	80.0	80,0
	32.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
36.00	36.00	3	80,0	80,0	80.0	0.08	80.0	80.0	80.0	80,0
	40.00	3	80,0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
	48.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
	52.00	3	78.7	78.7	78.7	78,7	78.7	78.7	78.7	78.7
	24,00	4	80.0	80,0	80.0	80.0	80.0	80.0	80,0	80.0
	28.00	4	80.0	80,0	80.0	80.0	80.0	80.0	80.0	80.0
44.00	32.00	4	80,0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	36.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	40.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	44.00	4	80.0	80.0	80,0	80.0	0.08	80.0	80.0	80.0
	48.00	4	80,0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
<del></del>	52.00	4	80.0	80.0	80.0	80,0	80.0	80.0	80,0	80.0
	24.00	4	80.0	80.0	80.0	80.0	80,0	80.0	0,08	80.0
52.00	28.00	4	80.0	80.0	80.0	80.0	80.Q	80.0	80.0	80.0
	32.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	36.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	40.00	4	80.0	80,0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	4	80.0	80.0	80,0	80,0	80.0	80.0	80.0	80,0
	48.00	4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	52.00	4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
	24.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	28.00	5	80.0	80.0	80,0	80.0	80.0	80.0	80,0	80.0
	32,00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.00	36.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
00.00	40.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	5	80.0	80.0	80.0	80.0	0.08	80.0	80.0	80,0
	52.00	5	78,7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	24.00	6	80.0	80.0	80.0	80,0	80.0	80.0	80.0	80.0
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72.00	36.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74,00	40.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	6	80.0	80.0	80.0	80.0	80.0	80,0	80.0	80.0
	52.00	6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	24.00	6	80,0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	28.00	. 6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44 AA	36.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77.00	40.00	6	80.0	80,0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
	52.00	6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6

Н	W	No. of Fastners	-	51	(	2	<b>©</b> 3		G4	
(IN.)	(IN.)	perJamb	POS	NEG	POS	NEG.	POS	NEG	POS	NEG
	24.00	3	80.0	80.0	80,0	80.0	80.0	80.0	80,0	80.0
	28.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
rie on	36.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96.00	40.00	3	80.0	80.0	80,0	80.0	80.0	80.0	80.0	80.0
	44.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	52.00	3	78.7	78.7	78.7	78,7	78.7	78.7	78.7	78.7
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	28.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	4	80,0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44.00	36.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
H4.00	40.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	44.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.0X)	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	52,00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	24.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	28.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52.00	32.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	36.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	40.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	4	80.0	80.0	80,0	80,0	80.0	80.0	80.0	0,08
	48.00	4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
	52.00	4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
	24.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	28.00	5	80.0	80.0	80,0	80.0	80.0	80.0	80,0	80.0
	32,00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.00	36.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
00.00	40.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	5	80.0	80.0	80.0	80.0	0.08	80.0	80.0	80.0
	52.00	5	78,7	78.7	78.7	78.7	78.7	78.7	78,7	78.7
	24.00	6	80.0	80.0	80.0	80,0	80.0	80.0	80.0	80.0
	28.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72.00	36.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
( A. VV	40.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	6	80.0	80.0	80.0	80.0	80.0	80,0	80.0	80.0
	52.00	6	78.7	78.7	78.7	78,7	78.7	78.7	78.7	78.7
	24.00	6	80,0	80.0	80.0	80.0	80.0	80.0	80,0	80.0
	28.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77.00	36.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
FROM	40.00	6	80.0	80,0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	6	79,7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
	52.00	6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6

EQUAL LITE SINGLE HUNG WINDOWS - DESIGN LOAD CAPACITY (PSF) Н No. of Fastners G4 (IN.) (IN.) ner Jamb POS | NEG POS NEG POS | NEG POS NEG 80.0 80.0 80.0 80.0 80.0 18.125 80.0 80.0 80.0 25.500 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 25,000 36.000 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 52.125 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80,0 18.125 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 0.08 25.500 80.0 80.0 80.0 80.0 80.0 80.0 4 80.0 80.0 37,375 36.000 4 0.08 0.08 80.0 80.0 80.0 80.0 80.0 80.0 52,125 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 18.125 4 80,0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 25,500 4 80,0 80.0 80,0 80.0 80.0 80.0 80.0 80.0 49,625 36.000 4 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 52,125 5 0.08 80.0 80.0 80.0 80.0 80.0 18.125 6 80.0 80.0 80.0 80.0 80,0 80.0 80.0 80.0 25.500 80,0 80.0 80,0 80,0 80.0 80.0 80.0 6 80.0 57.000 36,000 6 80.0 80,0 80.0 80.0 80.0 80.0 80.0 80.0 52,125 6 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 18.125 80.0 80.0 80.0 80.0 80.0 6 80.0 80.0 80.0 80.0 25,500 80.0 80.0 80.0 80.0 80.0 80.0 80.0 62,000 36,000 6 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 52.125 6 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 18.125 80.0 80.0 6 80.0 80.0 80.0 80.0 80.0 80.0 25.500 80.0 80.0 80,0 6 80,0 80.0 80.0 80.0 80.0 77,000 36.000 6 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 52.125 6 70.0 70.0 73.4 73.4 73.4 73.4 73.4



**EQUAL LITES** 

9001 AMBASSADOR ROW DALLAS, TEXAS 75247 PH: (214) 637-2696 FX: (214) 424-6734 BUILDING DROPS, INC. 27 W. FAIRBANKS AVE., STE. 438 WINTER PARK, PL 32789 127 03.14.12 DATE N. S. ₩ REVISIONS PER MD COMMENTS 03.08.12 DESCRIPTION 2 ~

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-0117.03
Expiration Date 03//4/20/7

By Jane Sur Miami Dade Product Control

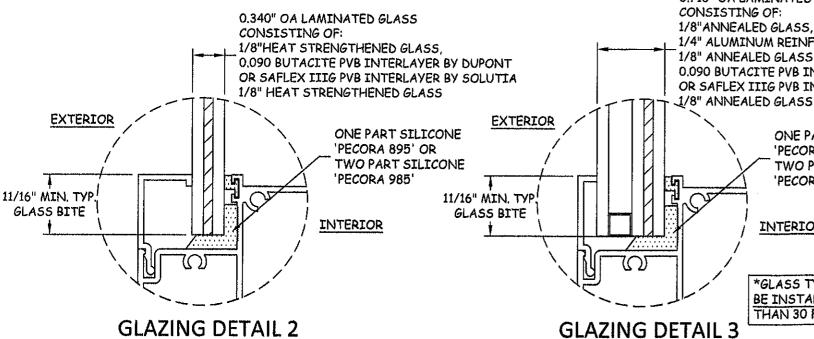
DATE 12.07.

DWG#:

SHEET

NOTE: ALL GLAZING LOAD RESISTANCE CAPACITIES HEREIN **COMPLY WITH ASTM E 1300-04.** 

	UNEQU	AL LITE SINGLE H	UNG WI	NDOWS	- DESIG	N LOAD	CAPAC	ITY (PSF	)	
Н	W	No. of Fastners	G	<b>i</b> 1		32	(	33		14
(IN.)	(IN.)	per Jamb -	POS	NEG	PO5	NEG	POS	NEG	POS	NEG
	24.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	28.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
52.00	36.00	4	80.0	80,Q	80.0	80.0	80,0	80.0	80.0	80.0
32,00	40.00	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	44.00	4	80.0	80.0	80.0	80.0	80,0	80.0	80.0	80.0
	48.00	4	78.7	78.7	80.0	80,0	80.0	80.0	80.0	80.0
	52.00	4	72.6	72.6	80.0	80.0	80.0	80.0	80.0	80.0
	24.00	5	80.0	80.0	80,0	80.0	80.0	80.0	80.0	80.0
	28.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60.00	36.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	0,08
00,00	40,00	5	80.0	80.0	80.0	80.0	80,0	80.0	80.0	80.0
	44.00	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	55	80.0	80.0	80.0	80.0	80,0	80.0	80.0	0,08
	52.00	5	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0
	24.00	б	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
	28.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80,0
	32.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72.00	36.00	6	80.0	0.08	80.0	80.0	80.0	80.0	80.0	80.0
72.00	40.00	6	80.0	80.0	80.0	80.0	80,0	80.0	80.0	80.0
	44.00	6	79.5	79.5	80.0	80.0	80.0	80.0	80.0	80.0
	48.00	6	75.8	75.8	80.0	80.0	78.1	78.1	80.0	80.0
	52.00	6	69.9	69.9	80.0	80.0	72.0	72.0	80.0	80.0
	24.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	28.00	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	32.00	6	80.0	80.0	80.0	80.0	80,0	80.0	80.0	0,08
77.00	36.00	6	80.0	80.0	80.0	80.0	80,0	80.0	80.0	80.0
7 7.400	40.00	6	76.0	76.0	80.0	80.0	78,3	78.3	80.0	0,08
	44.00	6	70.9	70.9	80.0	80.0	73.1	73.1	80.0	80,0
	48.00	6	66.7	66.7	80.0	80.0	68.7	68.7	76.3	76.3
····	52.00	6	5         80.0         80							
		/ WITH ASTI	VI E 13	300-0	4.	ED GL		REIN		
			CONSI				,55			
			/011 IC			LICK ICK	CI 4 C	_		



	UNEQU	ALLITE SINGLE H	UNG WI	NDOWS	- DESIG	N LOAD	CAPAC	ITY (PSF	)	
Н	W	No. of Fastners	G	<b>i</b> 1	6	i2	(	33		i4
(IN.)	(IN.)	per Jamb	POS	NEG	POS	NEG	POS	NEG	POS	NEG
	18.125	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
49.625	25.500	4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
43,023	36.000	4.	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	52.125	5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	18.125	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
57.000	25.500	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
37.000	36,000	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	52.125	6	80.0	80.0	80.0	80,0	80.0	80.0	80.0	80.0
	18,125	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
62,000	25,500	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
02.000	36.000	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	52.125	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	18.125	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77,000	25.500	6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
77.000	36.000	6	80.0	80.0	80,0	80.0	80.0	80.0	80.0	80.0
	52,125	6	63.0	63.0	73.4	73.4	64.9	64.9	72.1	72.1

EXTERIOR

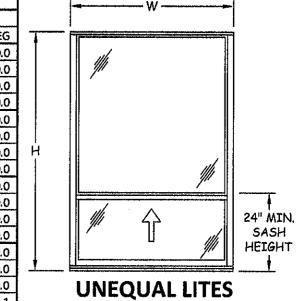
'PECORA 895' OR

'PECORA 985'

TWO PART SILICONE

11/16" MIN, TYP.

GLASS BITE



9001 AMBASSADOR ROW DALLAS, TEXAS 75247 PH: (214) 637-2696 FX: (214) 424-6734 BUILDING D
7 W. FAIRBANKS A
WINTER PARK, F PREPARED BY 03.14.12 DATE 8 PER MD COMMENTS 03.08.12 REVISION DESCRIPTION

11/16" MIN. TYP. GLASS BITE INTERIOR 0.715" OA LAMINATED I.G. 0.715" OA LAMINATED I.G. GLAZING DETAIL 1 CONSISTING OF: 1/8"TEMPERED GLASS, 1/4" ALUMINUM REINF. BUTYL SPACER 1/4" ALUMINUM REINF. BUTYL SPACER 1/8" ANNEALED GLASS 0.090 BUTACITE PVB INTERLAYER BY DUPONT 0.090 BUTACITE PVB INTERLAYER BY DUPONT OR SAFLEX IIIG PVB INTERLAYER BY SOLUTIA OR SAFLEX IIIG PVB INTERLAYER BY SOLUTIA 1/8" ANNEALED GLASS ONE PART SILICONE

0.340" OA LAMINATED GLASS

0.090 BUTACITE PVB INTERLAYER BY DUPONT

OR SAFLEX IIIG PVB INTERLAYER BY SOLUTIA

ONE PART SILICONE

'PECORA 895' OR TWO PART SILICONE

'PECORA 985'

CONSISTING OF: 1/8"ANNEALED GLASS,

1/8" ANNEALED GLASS

ONE PART SILICONE 'PECORA 895' OR TWO PART SILICONE 'PECORA 985'

INTERIOR

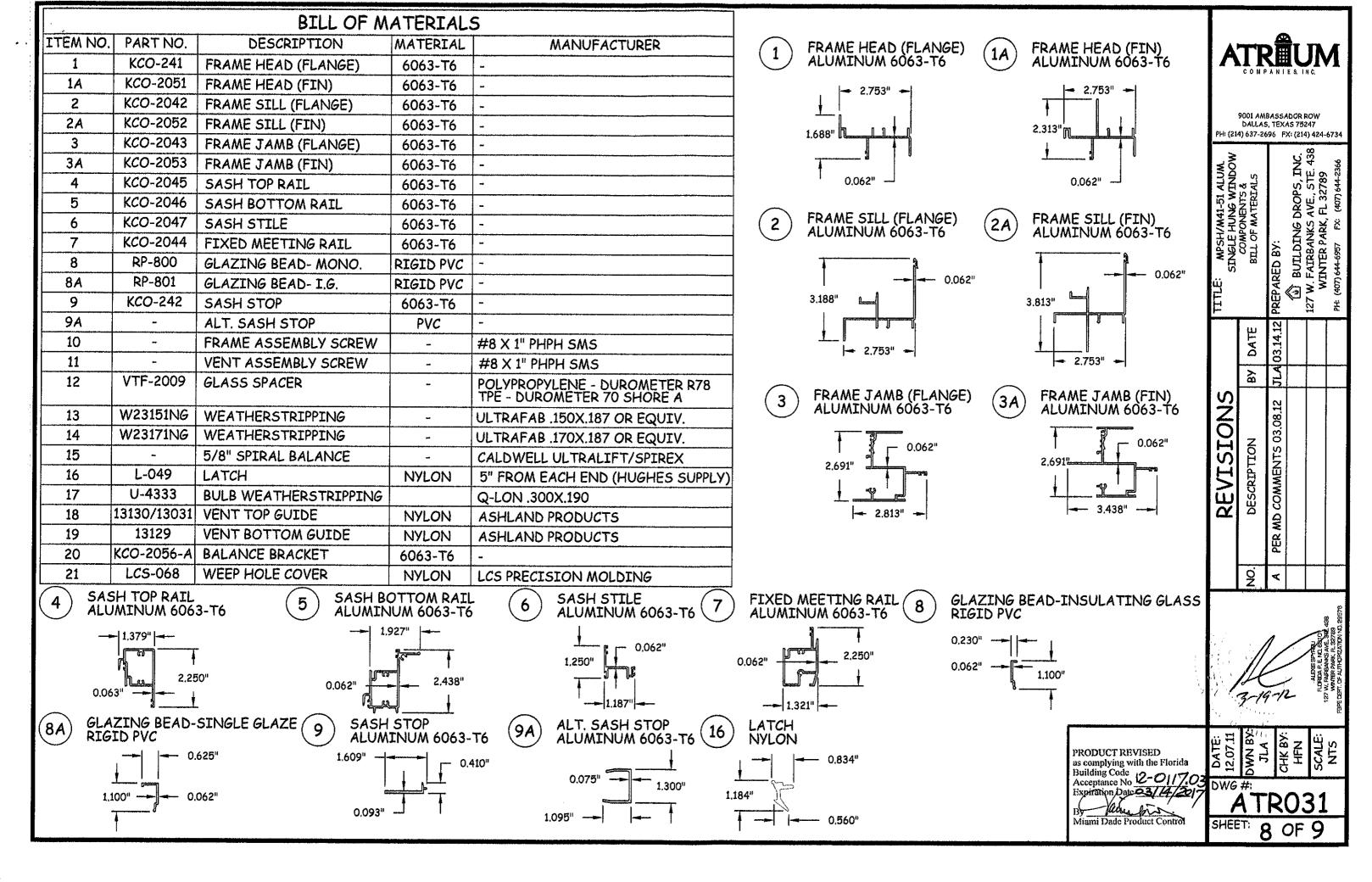
PRODUCT REVISED as complying with the Florida Acceptance No 12.017.03

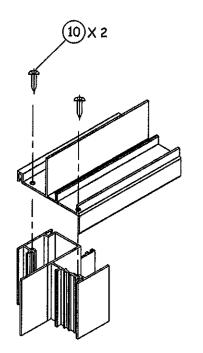
DWG #: SHEET: OF 9

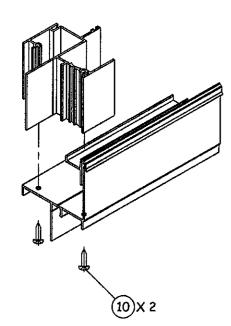
K

INTERIOR \*GLASS TYPE 3 SHALL NOT BE INSTALLED HIGHER THAN 30 FT. ABOVE GRADE **GLAZING DETAIL 4** 

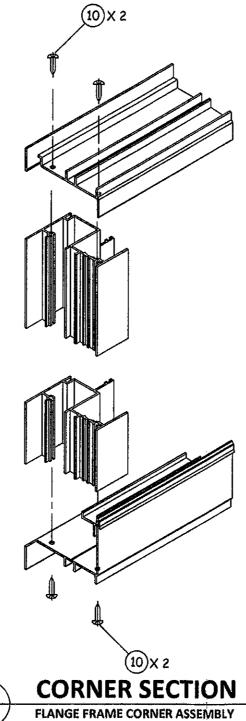
LARGE MISSILE IMPACT RESISTANT ONLY\*



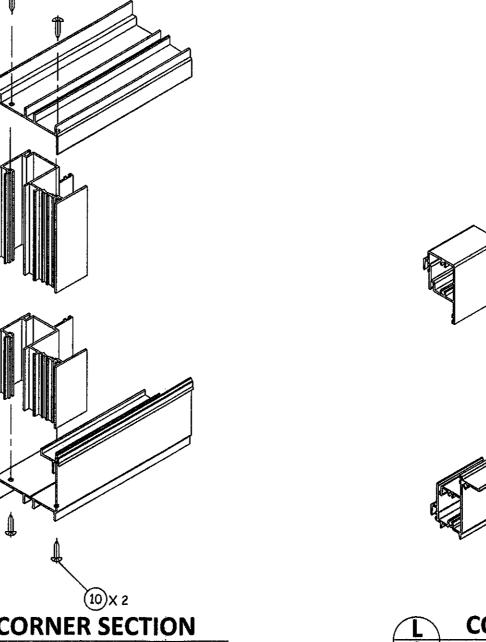


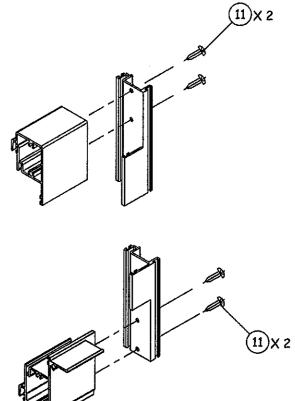




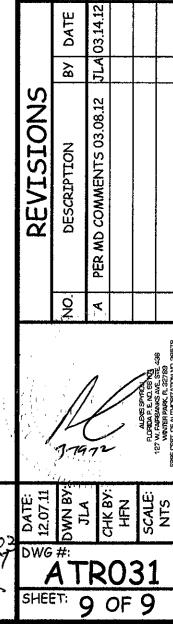


**TYPICAL** 









9001 AMBASSADOR ROW DALLAS, TEXAS 75247 PH: (214) 637-2696 FX: (214) 424-6734

RODUCT REVISED
s complying with the Florida
suilding Code
acceptance No 12-0117